=> d his

(FILE 'HOME' ENTERED AT 11:02:16 ON 11 JAN 2007)

FILE 'REGISTRY' ENTERED AT 11:02:25 ON 11 JAN 2007

L1 STRUCTURE UPLOADED

L2 STRUCTURE UPLOADED

L3 2 S L1 OR L2

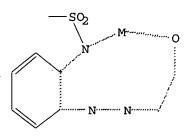
L4 49 S L1 OR L2 FULL

FILE 'CAPLUS' ENTERED AT 11:03:36 ON 11 JAN 2007

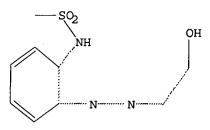
L5 11 S L4

=> d que 15 stat

L1 STR



Structure attributes must be viewed using STN Express query preparation. L2 STR



Structure attributes must be viewed using STN Express query preparation.

L4 49 SEA FILE=REGISTRY SSS FUL L1 OR L2

L5 11 SEA FILE=CAPLUS ABB=ON PLU=ON L4

=> d 1-11 bib abs hitstr

ANSWER 1 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN 2005:1174206 CAPLUS 144:63394 New unsymmetrical zinc-phthalocyanine conjugated with one azo-dye moiety: Synthesis via opening the fused triazole ring and spectral properties Mico, Xavier Alvarez, Vagin, Sergei I.; Subramanian, Lakshminarayanapuram R.; Ziegler, Thomas; Hanack, Michael Universitaet Tuebingen, Institut fuer Organische Chemie, Tuebingen, 72076, Garmanv LS AN DN TI ΑŲ

CS

Germany
European Journal of Organic Chemistry (2005), (20), 4328-4337
CODEN: SJOCTK, ISSN: 1434-193X
Viley-VCH Verlag GmbH & Co. KGaA
Journal so

English CASREACT 144:63394

A new method for the preparation of compds. containing an azo-dye moiety via opening the activated triazole ring upon coupling with nucleophiles was successfully applied to a mono-triazole-fused phthalocyaninato Zn complex I (R = OccHig(CHe3) 2-3,5). The prepared unsyms. Zn-phthalocyaninatine II (same R) conjugated with a 2-hydroxy-1-naphthylazo moiety in the periphery was characterized by UNvisible, FTIR, IH and I3C NMR spectroscopy, MALDI-TOF spectrometry, and elemental anal., and the data support its structure. The assignment of signals in the IH and I3C NMR spectra of compound II was based on the data from 2-dimensional CH-COSY and HC-HMBC measurements (C-H coupling across one bond and long-range H-C coupling). The compound exhibits interesting spectroscopic properties, indicating high acidity of the hydroxy group. This phthalocyanine behaves as a strongly solvatochromic compound and can exist in different forms depending on the concentration and nature of solvent. Addnl., photodecompn. of II in CHCl3

THF proceeds via different pathways. 871233-65-7P

8/12/3-55-7P RE: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent) (preparation, self-protonation and solvatochromism, NMR and UV-visible spectra, and photodecompn.)

ANSWER 1 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-B

ANSVER 1 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 871233-65-7 CAPLUS 210c. (1.1.1-trifluoro-N-[9,10,16,17,23,24-berakis[3,5-bis(1,1-dimethylethyl)phenoxy]-3-[(1E)-(2-bydroxy-1-naphthelenyl)azo]-29H,31H-phthalocyalin-2-yl-xd/29,xd/30,xd/31,xd/32]methanesulf onamidato(2-)]-, (SP-4-2)- (9CI) (CA INDEX NAME)

PAGE 1-A

L5 ANSWER 1 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued) PAGE 3-A

RE.CNT 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

20031226

ANSWER 2 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN 2005:982251 CAPLUS 143:268286

AN DN TI Production of ortho- and para-substituted aromatic azo compounds and other

Production of ortho- and para-substituted aromatic azo compounds at azo compounds
Subramanian, Lakshminarayanapuram Ramaswami; Alvarez, Mico Xavier;
Ziegler, Thomas
Universitaet Tuebingen, Germany
Ger. Offen, 18 pp.
CODEN: GWXXEX
Patent
German
CWT 1 IN

DT

PATENT NO. KIND DATE APPLICATION NO. DATE

PATENT NO. KIND DATE APPLICATION NO. DATE

PI DE 102004005316 Al 20050908 DE 2004-102004005316 20040204

PRAI DE 2004-102004005316 20040204

SMARPAT 143:262286

AB The title compds., useful in dyes, are prepared by nucleophilic coupling of 1,2,3-triazoles of specified structure. Stirring 1 part benzotriazole in 1 part glyme with an equimolar amount of Buli for 1 h at 0°, adding 1.5 parts nonefluorobutanesulfonyl fluoride dropwise, and refluxing for 3 h gave 89% 1-[(nonefluorobutane)sulfonyl]triazole (I). Stirring NaH 3, phenol 3, and 1 2.5 equivalent in PhWe at room temperature for 7 h gave 76% 2-[(2-hydroxyphenyl)azo]-1-[(nonefluorobutane)sulfonyl]benzene.

16 95502-80-99 653708-37-6P 863708-39-8P 863708-39-8P 863708-40-1P RL: IMP (Industrial manufacture); PRP (Properties); PREP (Preparation) (preparation of diazo compds.)

RN 695202-86-9 CAPLUS

CN 1-Butanesulfonsaide, 1,1,2,2,3,3,4,4,4-nonefluoro-N-[2-[(2-hydroxyphenyl) azo]phenyl]- (9CI) (CA INDEX NAME)

.

605202-88-1 CAPLUS
1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-[2-[(2-hydroxy-3-methoxyphenyl) azo]phenyl]- (9CI) (CA INDEX NAME)

ANSWER 2 OF 11 CAPLUS: COPYRIGHT 2007 ACS on STN (Continued)

863708-39-8 CAPLUS 1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-[2-[(2-hydroxy-5-methylphenyl)azojphenyl]- (9CI) (CA INDEX NAME)

863708-40-1 CAPLUS
1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-{2-{(2-hydroxy-3-methylphenyl)azo|phenyl]- (9C1) (CA INDEX NAME)

$$\stackrel{\text{OH}}{\underset{N\longrightarrow N}{\longrightarrow}} \stackrel{\text{OH}}{\underset{N\mapsto N}{\longrightarrow}} \stackrel{\text{OH}}{\underset{N\mapsto N}{\longrightarrow}} (\text{CF}_2)_{3}\text{-CF}_3$$

LS ANSWER 2 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

695202-89-2 CAPLUS
1-Butanesulfonamide, N-[2-[{3-(1,1-dimethylethyl)-2-hydroxyphenyl]azo]phenyl]-1,1,2,2,3,3,4,4,4-nonafluoro-(9CI) (CA INDEX NAME)

695202-90-5 CAPLUS
1-Butanesulfonaide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-[2-[(2-hydroxy-4-methylphenyl):20]phenyl]- (9CI) (CA INDEX NAME)

863708-37-6 CAPLUS
1-Butanesulfonamide, N-[2-[(5-chloro-2-hydroxyphenyl)azo]phenyl]1,1,2,2,3,3,4,4,4-nonafluoro- (9CI) (CA INDEX NAME)

143:142838
Optical recording material containing metal-azo chelate compound
Tanabe, Junshir Shinkai, Masahiro
TDK Corporation, Japan
Jpn. Kokai Tokkyo Koho, 41 pp.
CODEN: JXXXAF

DT LA FAN Patent

	PATENT NO.	KIND	DATE	APPLICATION NO.

	JP 2005193413	A	20050721	JP 2003-435517
ΙAΙ	JP 2003-435517		20031226	

MARPAT 143:142838

The material contains a chelate compound of a metal and an azo compound I or II (A, B = arom.ring) X1= residue of removing 2 actinic H from a group having 22 actinic H; X2 = residue of removing an actinic H from a group having 21 actinic H; Y1 = substituent). The material shows good recording, reading properties and lightfastness.

856669-73-5 DP, cobalt complex 85949-65-2 PP.

RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(optical recording material containing metal-azo chelate compound)

858669-73-5 CAPLUS

Methanesulfonamide, N-[5-(dimethylamino)-2-[(2-hydroxy-5-nitrophenyl) azolphenyl] - (9CI) (CA INDEX NAME)

858949-65-2 CAFLUS
Cobaltate(1-), bis[N-[5-(dimethylamino)-2-[[2-(hydroxy-xO)-5ntropheny]azo-xNl]phenyl]-1,1,1-trifluoromethanesulfonamidato(2-).xN]-, sodium (9CI) (CA INDEX NAME)

ANSWER 3 OF 11 CAPLUS COPYRIGHT 2007 ACS OR STN (Continued)

L5 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AB Monoazo-, disazo and triazo dyes I (M = 2 H atoms or Cu, Co, Ni, Mn, Zn or Al, A = the residue of a substituted naphthyl or pyrazolyl group) prepared by diazotizing of 2-di(methanesulfonyl)amidoaniline in the customary manner, coupling with aromatic coupling component and, optionally reacting with Cu, Co, Ni, Mn, Zn or Al salts are used as coloring agents for jet printing inks and electrophotog. toners, for paints, plastics, rubber and wood materials. Thus, warming an aqueous solution of a monoazo dye [prepared by diazotizing of 2-di(methanesulfonyl)amidoaniline in aqueous HCl solution with

of activing of 2-di (methanesulfonyl) amidoaniline in aqueous ECI solution

NaNO2 and coupling with 1,8-dihydroxy-3,6-naphthalenedisulfonic acid
disodium salt] containing also NaOH, sodium acetate and CuSO4 1 h at
80° gave a monoazo complex II. An aqueous solution of II containing also
diethylene glycol 20.0, triethanolamine 1.0 and urea 1.0 g in 78.0 g of
water is useful as light-resistant storage stable inks.
777079-41-19 777079-45-5P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT
(Reactant or reagent)
(methane sulfonamide azo dyes and their metal complexes as coloring
agents for jet printing inks and electrophotog, toners)
777079-41-1 CAPLUS
CUprate(2-), (4-(hydroxy-xO)-5-hydroxy-3-[[2-[(methylsulfonyl)aminoxM)|phenyl|aco-xM|]-2,7-naphthalenedisulfonato(4-)]-, disodium
(9CI) (CA INDEX NAME)

L5 AN	ANSWER 4 OF 11 CAP: 2004:870932 CAPLUS	us com	YRIGHT 20	07 ACS OR STN	PPLICANT			
DN	141:351422 Hethane sulfonamide azo dyes.							
TI								
IN	Pflieger, Dominique, Metz, Hans Joachim							
PA	Clarient G.m.b.H., Germany							
so	Ger. Offen., 20 pp. CODEN: GWXXEX	, u						
DT	Patent	•						
LA	German							
	CNT 1							
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE			
ΡI		Al	20041021	DE 2003-10316402	20030410			
••			20041021	Ch 2003-10310402	20040331			
			20041021	CA 2004-2521861 WO 2004-EP3380	20040331			
				BA, BB, BG, BR, BW,				
				DZ. EC. EE. EG. ES.				
				IS, JP, KE, KG, KP,				
	LR. LS. LT.	LU. LV.	MA. MD. H	IG, MK, MN, MW, MX,	MZ. NA. NI. NO.			
				RU, SC, SD, SE, SG,				
				JS, UZ, VC, VN, YU,				
				D, SL, SZ, TZ, UG,				
				AT, BE, BG, CH, CY,				
				T, LU, MC, NL, PL,				
				M, GA, GN, GQ, GW,				
	TD, TG							
	EP 1615973	A1	20060118	EP 2004-724549	20040331			
	R: AT, BE, CH,	DE, DK,	ES, FR, C	B, GR, IT, LI, LU,	NL, SE, MC, PT,			
				Y, AL, TR, BG, CZ,				
	BR 2004009226	A	20060328	BR 2004-9226	20040331			
	CN 1771297	λ	20060510	CN 2004-80009541				
			20061026	JP 2006-504924	20040331			
	US 2006286477	A1	20061221	US 2005-552602				
PRAI	DE 2003-10316402		20030410					
	WO 2004-EP3380	₩	20040331					
os	MARPAT 141:351422							
GI	•							

L5 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

●2 Na+

777079-45-5 CAPLUS CUPTATE(8-(hydroxy-KO)-1-hydroxy-7-[[2-[(methylau)fonyl) anino-KN]phenyl]azo-KN]-3,6-disulfo-2-naphthalenyl]azo|-3-methoxyphenyl]azo|-1,3-naphthalendisulfonato(6-)]-,tetrasodium (9CI) (CA INDEX NAME)

L5 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

777079-42-2DP, C12-14 alkyl ammonium salt 777079-43-3P
777079-44-4DP, C12-14 alkyl ammonium salt 777079-47-7P
RL: IMF (Industrial manufacture): TEM (Technical or engineered material use): PREF (Preparation): USES (Uses)

(methane sulfonamide azo dyes and their metal complexes as coloring agents for jet printing inks and electrophotog. toners)
777079-42-2 CAPLUS
Cuprate(2-), [4-(hydroxy-KO)-5-hydroxy-3-[{2-[(methylsulfonyl)amino-KN)phenyl]azo-KNI]-2,7-naphthalenedisulfonato(4-)]-,
dihydrogen (9CI) (CA INDEX NAME)

●2 H+

777079-43-3 CAPLUS
CUprate(2-), (4-(hydroxy-k0)-6-[(2-hydroxy-6-sulfo-1-naphthalenyl)azo)-3-[(2-((methylsulfonyl)amino-kN)phenyl)azo-kNl)-2-naphthalensulfonato(4-)]-, disodium (9CI) (CA INDEX NAME)

ANSWER 4 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN CCI CCS (Continued)

PAGE 1-R

СН 2

CRN 104-75-6 CMF C8 H19 N

Rt-CH-Ruse

L5 ANSWER 4 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

777079-44-4 CAPLUS
Cuprate(2-), [4-(hydroxy-KD)-6-[(2-hydroxy-6-sulfo-1-naphthalenyl)aco]-3-[(2-[(methylsulfonyl)amino-KN]phenyl]azo-KN1]-2-naphthalenesulfonato(4-)]-, dihydrogen (9CI) (CA INDEX NAME)

●2 H+

777079-47-7 CAPLUS
CUPTATE(4-), [6-[[4-[[8-(hydroxy-wo]-1-hydroxy-7-[[2[(meth)*sulfonyl) amino-wN]phenyl]azo-wN]-3,6-disulfo-2naphthalenyl]azo]-3-methoxyphenyl]azo]-1,3-naphthalenedisulfonato(6-)]-,
tetrahydrogen, compd. with 2-ethyl-1-hexanamine (1:4) (9CI) (CA INDEX NAME)

CH 1

CRN 777079-46-6 CMF C34 H21 Cu N7 017 S5 . 4 H

ANSWER 5 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN 2004:292256 CAPLUS 141:6886 A Versatile direct approach to ortho-substituted azobenzenes from benzotriazoles Alvarez Mico, Xavier, Ziegler, Thomas, Subramanian, Lakshiminarayanapuram R.

AU

R. Institut fuer Organische Chemie, Universitaet Tubingen, Tubingen, 72076, CS

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Institut fuer Organische Chemie, Universitaet Tubingen, Tubingen, 72076, Germany
Angewandte Chemie, International Edition (2004), 43(11), 1400-1403
CODEN: ACIEF5; ISSN: 1433-7851
Wiley-VCH Verlag GmbH & Co. KGaA
Journal
English
CASREACT 141:6886
The hidden potential of benzotrizzoles to act as diazonium synthons, has been witnessed in the reactions, of 1-[(nonafluorobutyl)sulfonyl]-1H-1,2,3-benzotrizzole with sodium phenoxide in which ortho-substituted azobenzenes. were formed. The intermediacy of a diazonium compound was ruled out; instead, a mechanism was proposed to proceed via a coupling-type reaction. The reaction can be steered towards ortho or para substitution simply by changing the solvent. For example, the reaction of 1-[(nonafluorobutyl)sulfonyl]-1H-benzotrizzole with phenol gave 1,1,2,2,3,3,4,4,4-Nonafluoro-N-[2-[(2-hydroxyphenyl)azo]phenyl]-1-butanesulfonamide [2-hydroxy isomer] in toluene. On the other hand, the same reactants gave 1,1,2,2,3,3,4,4,-nonafluoro-N-[2-[(4-hydroxyisomer) in DMF as solvent.
695202-86-9P 695202-88-1P 695202-89-2P
695202-90-5P 695202-92-TP 695202-93-8P
RL: STN (Synthatic preparation) PRTF (Preparation)
(preparation of ortho-substituted azobenzenes from phenol derivs. and (nonafluorobutyl)sulfonyl]-1H-benzotrizzole)
695202-86-9P CAPLUS
1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-[2-[(2-hydroxyphenyl)azo]phenyl]- (GCI NDEK NAME)

695202-88-1 CAPLUS
1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-{2-{(2-hydroxy-3-methoxyphenyl) ezo]phenyl}- (9CI) (CA INDEX NAME)

ANSWER 5 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

695202-89-2 CAPLUS
1-Butanesulfonamide, N-[2-{[3-(1,1-dimethylethyl)-2-hydroxyphenyl}azo]phenyl]-1,1,2,2,3,3,4,4,4-nonafluoro- (9CI) (CA INDEX NAME)

695202-90-5 CAPLUS

1-Butanesulfonamida, 1,1,2,2,3,3,4,4,4-nonafluoro-N-{2-[(2-hydroxy-4-methylphenyl)azo]phenyl]- (9CI) (CA INDEX NAME)

695202-92-7 CAPLUS
1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-[2-{(2-hydroxy-1-naphthalenyl)azojphenyl]- (9CI) (CA INDEX NAME)

ANSWER 6 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN 2004:164120 CAPLUS 140:415259

AN DN TI

140:415259
Crystal structure of nonafluoro-{N-[(E)-2-(2-hydroxyphenyl)diazenyl)phenyl}
-1-butanesulfonamide, ClGH10F9N303S
Mico, X. Alvarez; Richter, M.; Schwarz, S.; Straehle, J.; Ziegler, T.;
Subramanian, L. R.
Institute of Organic Chemistry, University of Tuebingen, Tuebingen,
D-72076, Germany
Zeitschrift fuer Kristallographie - New Crystal Structures (2003), 218(4),
S49-S50
CODEN: ZKNSFT; ISSN: 1433-7266
Oldenburg Wissenschaftsverlag GmbH
Journal

ΑU

CS

so

Journal
English
The title compound is monoclinic, space group P21/c, with a 5.6549(3), b
12.2550(9), c 27.170(6) Å, ß 90.446(8] ', Z = 4, R = 0.088,
Rw = 0.261, T = 213 K. Atomic coordinates are given. Some bond lengths,
bond angles and hydrogen bonding are given and discussed.
690664-14-3
RL: PRP (Properties)
(crystal structure of)
690664-14-3 CAPLUS
1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-[2-[(1E)-(2-hydroxyphenyl)azo]phenyl]- (CA INDEX NAME)

IT

Double bond geometry as shown.

RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT L5 ANSWER 5 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

695202-93-8 CAPLUS
1-Butanesulfonamide, 1,1,2,2,3,3,4,4,4-nonafluoro-N-{2-{(1-hydroxy-2-naphthalenyl)azo]phenyl]- {9Cl} (CA INDEX NAME)

THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT RE.CNT 46

ANSWER 7 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN 1970:505063 CAPLUS 73:105063

AU CS SO

1970:505063 CAPLUS
73:105063
New types of isomerism in 1:2 chromium(III) and cobalt(III) complexes of 0,0'-dihydroxyazo compounds. Pyramidally bonded nitrogen with a high inversion barrier?
Schetty, Guido
Wiss. Lab., J. R. Geigy A.-G., Basel, Switz.
Helvetica Chimica Acta (1970), 53(6), 1437-59
CODEN: KCACAV, ISSN: 0018-019X
Journal
German
Previously reported x-ray and NNR data of 1:2 Co(III) complexes of 0,0'-dihydroxyazo compds. indicate that metal chelates of di- and tridentate azo compds. are present in the diketo or quinone monohydrazone form, as the metal atoms replace the hydrazone proton, the coordinating N atom can be prededtd. For 1:2 Cr complexes from 0,0'-dihydroxyazo compds., small amts. of byproducts were observed which have the empirical composition of the main complexes. The 3

observed which have the empirical composition or the main complexes. The is of the coordinated N atom, which is sp3 hybridized, are arranged in a pyramidal form. In 1:2 Cr complexes where 2 of these ligands are coordinated to the metal atom perpendicularly to each other, 3 conformers are possible. These conformers are socribed to 1 group of the observed isomeric complexes; for another group at least 1 ligand is coordinated in the plane azo form. The postulated 3-bonded N atom possesses the requirements for a high inversion barrier and is a member of 2 ortho condensed rings and it is bound to a Lewis acid.

28788-77-4P 29828-84-0P
RL: SPN (Synthetic preparation), PREP (Preparation)
(preparation of)
28788-77-4 CAPLUS
Methanesulfono-p-toluidide, 2'-[(6-hydroxy-m-tolyl)azo]- (8CI) (CA INDEX NAME)

29928-84-0 CAPLUS Chromate(1-), bis[2'-[(6-hydroxy-m-toly1)azo]methanesulfono-p-toluididato(2-)]-, cesium (8CI) (CA INDEX NAME)

ANSWER 7 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ANSWER 8 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN
1968:31025 CAPLUS
68:31025
Ring strain in pentacyclic azo dye-chromium(III) complexes
Schetty, Guido
J. R. Geigy A.-G., Basel, Switz.
Helvetics Chimics Acts (1967), 50(7), 1836-42
CODEN: HCACAV, ISSN: 0018-019X
JOURNAI
German
For diagram(s), see printed CA Issue.
Ring strain was demonstrated in a series of pentacyclic Cr(III) complexes
(I) of sac dyes, in which 2 azo dye mols. are vertical to each other and
are linked so that a metal-containing heterocycle is formed. The ring size

this heterocycle was increased from 8-15 members (n = 3-10) and the changes in the electron absorption spectra were followed. The 15-membered ring had the same electron absorption spectrum as the corresponding 1:2-complex, which does not contain this heterocycle. The position of the 2 azo dye mols. must therefore be identical in the 2 complexes.

17127-95-96 17127-96-79 17127-97-89

17127-95-97 18114-86-89

RL: SPN (Synthetic preparation), PREP (Preparation) (preparation of)

17127-95-9 CAPLUS

1,4-Butanedisulfonamide, N,N'-bis[1-{(6-hydroxy-m-tolyl)azo]-2-naphthyl]-(8CI) (CA INDEX NAME)

17127-96-7 CAPLUS 1,5-Pentanedisulfonamide, N,N'-bis[1-[(6-hydroxy-m-tolyl)azo]-2-naphthyl]-(GCI) (CA INDEX NAME)

ANSWER 8 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

17127-97-8 CAPLUS
1,6-Hexanedisulfonamide, N,N'-bis[1-[(6-hydroxy-m-toly1)azo]-2-naphthyl]-(8CI) (CA INDEX NAME)

17127-98-9 CAPLUS 1,10-Decamedisulfonamide, N,N'-bis[1-[(6-hydroxy-n-tolyl)azo]-2-naphthyl}-(8CI) (CA INDEX NAME)

18114-86-8 CAPLUS
Chromate(1-), bis[N-[1-{(6-hydroxy-m-tolyl)szo]-2-naphthyl]-N'-2-naphthyl-1,5-peatanedisulfonamidato(2-)]-, cesium (8CI) (CA INDEX NAME)

L5 ANSWER 8 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

LS ANSWER 8 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

PAGE 2-B

ANSWER 9 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

14554-24-6 CAPLUS Ethanesulfonamide, N-[1-[(6-hydroxy-m-toly1)azo]-2-naphthy1]- (8CI) (CA INDEX NAME)

14554-24-6 CAPLUS Ethanesulfonamide, N-[1-[(6-hydroxy-m-toly1)azo]-2-naphthy1]- (8CI) (CA

14554-25-7 CAPLUS 1-Propanesulfonamide, N-[1-[(6-hydroxy-m-toly1)azo]-2-naphthy1]- (8CI) (CA INDEX NAME)

ANSWER 9 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN 1967:422885 CAPLUS 67:22885 Chromium- and cobalt-pentacyclic azo dye complexes with Drew-Pfitzner configuration Schetty, Guido Viss. Lab., J. R. Geigy A.-G., Basel, Switz.
Helvetica Chimica Acta (1967), 50(4), 1039-52 CODEN: HCACAV, ISSN: 0018-019X
Journel German
For the first time pentacyclic Cr(III) and Co(III) azo dye complexes with Drew-Pfitzner configuration were produced. Comparison of their electronic spectra with those of analogous 1:2 complexes enables novel conclusions as to the shape of the octahedron formed by the metal-binding atoms. 14554-22-4P Methanesulfonamide, N-[1-[(6-hydroxy-m-tolyl)azo]-2-naphthyl]-, complexes with chronium and cobalt 14554-22-4P 14554-24-6P 14554-24-6P 14554-25-7P 14554-25-1P 14554-25-7P 14554-26-6P 14554-25-7P 14554-26-7P 14557-62-1P 14557-64-3P 14649-26-4P 14649-26-4P 14659-26-1P 14557-62-1P 14557-62-3P 14649-26-4P 14649-4P 14649-4P

14554-22-4 CAPLUS Methanesulfonamide, N-{1-{(6-hydroxy-m-toly1)azo}-2-naphthy1}- (8CI) (CA INDEX NAME) (CA INDEX NAME)

ANSWER 9 OF 11 CAPLUS COPYRIGHT 2007 ACS OR STN

14554-25-7 CAPLUS 1-Propanesulfonamide, N-{1-[(6-hydroxy-m-tolyl)azo]-2-naphthyl}- (8CI) (CA INDEX NAME)

14557-62-1 CAPLUS
Methanesulfono-p-toiuidide, 2'-[(2-hydroxy-1-naphthyl)azo]- (8CI) (CA
INDEX NAME)

14557-64-3 CAPLUS 1,3-Propanedisulfonamide, N,N'-bis[1-{(6-hydroxy-m-tolyl)azo]-2-naphthyl]-(GCI) (CA INDEX NAME)

(Continued) PAGE 2-A

ANSWER 9 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

14649-23-1 CAPLUS
Chromate(1-), bis{N-[1-[(6-hydroxy-m-tolyl)azo]-2-naphthyl]methanesulfonamidato(2-)]-, cesium (8CI) (CA INDEX NAME)

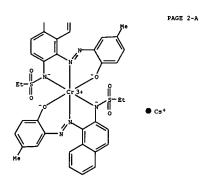
PAGE 1-A

LS ANSWER 9 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN

14649-24-2 CAPLUS
Chromate(1-), bis[N-[1-[(6-hydroxy-m-tolyl)azo]-2-naphthyl]ethanesulfonamidato(2-)]-, cesium (8CI) (CA INDEX NAME)

PAGE 1-A

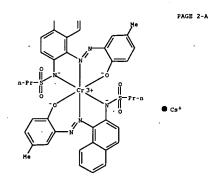
L5 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



14649-25-3 CAPLUS
Chromate(1-), bis[N-[1-[(6-hydroxy-m-toly1)azo]-2-naphthy1]-1-propanesulfonamidato(2-)]-, cesium (8CI) (CA INDEX NAME)

PAGE 1-A

L5 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN



'14649-26-4 CAPLUS
Cobaltate(1-), bis{N-[1-{(6-hydroxy-m-tolyl)azo]-2-naphthyl]methanesulfonamidato(2-)}-, cesium (8CI) (CA INDEX NAME)

PAGE 1-A

L5 ANSWER 9 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L5 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L5 ANSWER 10 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN AN 1964:17428 CAPLUS DN 60:17428 CAPLUS C Heavy metal-containing azo dyes Beffa, Pabio, Schetty, Guido J. R. Geigy A.-G. 7 pp. Patent LA Unavailable FAN.CNT 1 PATENT NO. KIND DATE APPLICATION NO. DATE DE 1151889 GB 955506 US 3132130 19630725 DE 1960-G30677 19601011 PI US 1960-61837 19640505 19601011 US 3132130 19640505 US 1960-61837 19601011 CH 19591012
Dyes of the general formula 2-AN:NCGHAMHSO2R, where R is Me, 4-MeCGH4, or 3-MeO2SCGH4, and A is a radical containing OH or NH2 adjacent to the azo N, form Cr or Co complexes which dye lacquers, varnishes, and polypeptide textiles. Thus, 2-HENCGH4W(SOZMe)2 (1) 26.4 was diszotized and coupled with 1,7-(MeO2CCHH) (RO)(TOHG 62.2 in HZO 300, NaOH 4.2 parts, and sufficient NaZCO3 to make the mixture weakly alkaline to phenolphthalein PRAI CH coupling. The precipitated dye was filtered, dried, suspended in MeOCH2CH2CH 250 vols. and saponified at room temperature with 10N NaOH 30 vols. The mixture was stirred 1 hr., neutralized with AcOH, refluxed a few hrs. with 220 parts of a solution of Na Cr salicylate (containing 2.86 parts Cr), and the Cr complex complex precipitated with NaCl solution, filtered, and dried. It was a dark powder which dyed wool gray from neutral or weakly acid baths. Similarly, other dyes were prepared, one SO2R group being saponified after coupling (amine, ling
component, metal, and color on wool given): the 4-Me derivative of I,
component, metal, and color on wool given): the 4-Me derivative of I,
2-HZNC10H7, Co, reddish gray: I, PhNHCCCH2Ac, Co, yellow: I,
1-(3-ehlorophenyl)-3-methyl-5-pyrazolone, Cr, orange: 2-HZNC6H4N(SO2C6H4Me4)2, 2-MC010H7, Cr, violet-bordeaux; 2-HZNC6H4N(SO2C6H4SO2Me-3)2 (II),
1,7-AcNR(MO)C10H6, Cr, gray: and II + 3,4-Me2C6H3OH, Co, brown.
98882-03-2, I-Naphthalenecarbamic acid, 7-hydroxy-8-{(o-methanesulfonamidophenyl)szo]-,
methyl ester (7CI) (CA INDEX NAME)

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LS ANSWER 11 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1963:436068 CAPLUS
DN 59:36068
OREF 59:6552=h
TI Metalized azo dyes
IN Maderni, Pieror Wehrli, Walter
AS Sandoz Ltd.
50 4 pp.
TP patent
LA Unavailable
FAN.ChT 1
PATENT NO. KIND DATE APPLICATION NO. DATE
FARICH 10 19570625
AB Cr and Co complexes (1:2) of o-hydroxy-o'-methylsulfonylamino azo compds.
are prepared Thus, 2-HINGCHN(500He)2 (I) 6.6 was diazotized and coupled with 7.1-HOCIOHGHHCOZCHZCHZOET 7.2 parts. The monoszo compound was filtered, washed with H20 50, and, to hydrolyze one MeSO2 group, suspended in H20 770 at 90°, treated with 30% NaOH 25, stirred for 5 min. at 85-90°, neutralized with concentrated H21 17 parts, filtered, washed with H20 180 at 185-90°, to be subject to the H20 and dried in vacuo at 65° to give a red-brown powder (II), violet in dilute NaOH, red in concentrated H2504. II 4.7 was heated for 3.5 hrs.
at 95° and 3 hrs. at 115° with HCONH2 30 and Cr(OAc)2 (Cr - 17.51) 3, then cooled to 20° and poured into 10% NaCl 160 parts, filtered, washed with 18 NaCl and dried in vacuo to give a dark blue powder, which Myed vool, silk, and synthetic polyanides from neutral to weakly acid baths gray shades of good fastness the Co complex dyed these fibers brownish gray. Similarly, 1,2-H2N([MeSO2] NICOHÓ (III) and 1-(3-sulfamoylphenyl)-3-methyl-5-pyrazolone gave a reddish brown methylsulfonylamino monoazo dye, yellow in dilute NaOH, red-violet in Concentrated
H2504 which was converted to a bordeaux red Cr complex dye and to a brown Co complex dye. Preparation of I: 1 mole 1,2-02N([MeSO2]NICOHÓ (III) and 1-(3-sulfamoylphenyl)-3-methyl-5-pyrazolone gave a reddish brown methylsulfonylamino monoazo dye, yellow in dilute NaOH, red-violet in Concentrated
H2504 which was converted to a bordeaux red Cr complex dye and to a brown Co complex dye. Preparation of I: 1 mole 1,2-02N([MeSO2]NICOHÓ (III) and 1,2-02N([MeSO2]NICOHÓ (III) a
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L5 ANSWER 11 OF 11 CAPLUS COPYRIGHT 2007 ACS on STN (Continue

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L6		16	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	"PFLIEGER DOMINIQUE"/AU
L7		53	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	"METZ HANS JOACHIM"/AU
L8		68	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L6 OR L7
L10		2	SEA	FILE=CAPLUS	ABB=ON	PLU=ON	L8 AND (SULFOAMIDE OR SULFONAMI
			DE)				

=> d 1-2 bib abs

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L10 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN
AN 1937:757060 CAPLUS
IN 128:35976
II Mixtures of 2:1 aluminum complexes
IIN Fflieger, Dominique; Kaul, Bansi Lal
PA Clariant Finance (Bvi) Limited, Virgin I. (Brit.); Pflieger, Dominique;
Kaul, Bansi Lal
PCT Int. Appl., 13 pp.
COOEN: FIXXD2
IT PATENT NO.
LA English
FAN.CNT 1
PATENT NO.
KIND DATE APPLICATION NO. DATE
PATENT NO.
KIND DATE APPLICATION NO. DATE
V: JP, US
RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE
EP 901508 B1 10021030
R: BE, CH, DE, ES, FR, GB, IT, LI, NL
JP 2001502723 T 20010227 UP 1997-540693 19970514
US 6024771 A 20000215 US 1998-180755 19981113
PAGE B1996-10051 A 19960806
W0 1997-IB546 V 19970514
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* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title mixts. contain I (R3 = methoxypropyl) R5 = 2,5-dimethoxyphenyl, 2-methoxyphenyl; the sulfonamide groups in the 5-position), II [R6 = H, (methylsulfonamido)-2-hydroxyphenylazor the methylsulfonamido group in the 4-position], or III [R8 = 2-methoxyphenyl, CH2CHET(CH2) Mer, the methylsulfonamido group in the 5-position]. 2-Amino-4-(3-methoxypropylaminosulfonyl)phenol was diazotized, coupled with 2,5-dimethoxyacetanilide and 2-methoxyacetacetanilide, then metalized by Al sulfate and treated with triacetoneamine to obtain I as a mixture or sym. and asym. isomers with good solubility in ethanol and coloring nitrocellulose lacquers a greenish yellow tone.

L10 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

AB Monoazo-, disazo and triazo dyes I (M = 2 H atoms or Cu, Co, Ni, Mn, Zn or Al, A = the residue of a substituted naphthyl or pyrazolyl group) prepared by diszotizing of 2-di (methanesulfonyl) amidoaniline in the customary manner, coupling with aromatic coupling component and, optionally reacting with Cu, Co, Ni, Mn, Zn or Al salts are used as coloring agents for jet printing inks and electrophotog, toners, for paints, plastics, rubber and wood materials. Thus, warming an aqueous solution of a monoazo dye [prepared by diazotizing of 2-di(methanesulfonyl) amidoaniline in aqueous HCl solution with

with
NaNO2 and coupling with 1,8-dihydroxy-3,6-naphthalenedisulfonic acid
disodium salt| containing also NaOH, sodium acetate and CuSO4 1 h at
80° gave a monozo complex II. An aqueous solution of II containing also
diethylene glycol 20.0, triethanolamine 1.0 and urea 1.0 g in 78.0 g of
water is useful as light-resistant storage stable inks.

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(FILE 'HOME' ENTERED AT 11:02:16 ON 11 JAN 2007)

FILE 'REGISTRY' ENTERED AT 11:02:25 ON 11 JAN 2007 Ll STRUCTURE UPLOADED STRUCTURE UPLOADED L2 L3 2 SEA SSS SAM L1 OR L2 D SCAN 49 SEA SSS FUL L1 OR L2 L4FILE 'CAPLUS' ENTERED AT 11:03:36 ON 11 JAN 2007 L5 11 SEA ABB=ON PLU=ON L4 D QUE L5 STAT D. 1-11 BIB ABS HITSTR E PFLIEGER DOMINIQUE/AU L6 16 SEA ABB=ON PLU=ON "PFLIEGER DOMINIQUE"/AU E METZ HANS JOACHIM/AU L7 53 SEA ABB=ON PLU=ON "METZ HANS JOACHIM"/AU L8 68 SEA ABB=ON PLU=ON L6 OR L7 O SEA ABB=ON PLU=ON L8 AND (METHANESULFONAMIDE OR METHANESULFOA L9 MIDE) L10 2 SEA ABB=ON PLU=ON L8 AND (SULFOAMIDE OR SULFONAMIDE) D QUE L10 STAT D 1-2 BIB ABS

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